

Title (en)
IMAGE-DISPLAY SHEET

Title (de)
BILDANZEIGEFOLIE

Title (fr)
FEUILLE D'AFFICHAGE D'IMAGES

Publication
EP 2701004 A4 20141203 (EN)

Application
EP 12773512 A 20120420

Priority
• JP 2011096476 A 20110422
• JP 2012060746 W 20120420

Abstract (en)
[origin: EP2701004A1] The purpose of the present invention is to provide an image-display sheet that creates smoothly-moving pseudo-moving images and can be provided on a position-detection target. Said image-display sheet is provided on a position-detection target (3000), and is configured by laminating an image-formation layer and a piano-convex lens sheet comprising an array of a plurality of piano-convex lenses. From the side that has bumps due to the piano-convex lenses, images formed on the image-formation layer can be viewed as virtual images that move. This image-display sheet is characterized in that: a plurality of repeating virtual-image-forming images that work together with the piano-convex lenses to display the virtual images (104A and 104B) are formed in a rough one-to-one correspondence with the piano-convex lenses; the difference between the horizontal pitch of the piano-convex lenses and the horizontal pitch of the virtual-image-forming images is at most 10%; the difference between the vertical pitch of the piano-convex lenses and the vertical pitch of the virtual-image-forming images is at most 10%; and the virtual images (104A and 104B) appear to move smoothly with respect to changes (θ) in the angle at which the position-detection target (3000) is viewed.

IPC 8 full level
G03B 35/00 (2006.01); **B41M 3/14** (2006.01); **B44F 1/10** (2006.01); **G02B 30/29** (2020.01); **G03B 25/02** (2006.01); **G03B 35/24** (2006.01); **H04N 13/04** (2006.01)

CPC (source: EP US)
B41M 3/148 (2013.01 - EP US); **B44F 1/10** (2013.01 - EP US); **G02B 3/005** (2013.01 - EP US); **G02B 3/0056** (2013.01 - US); **G02B 30/27** (2020.01 - US); **G02B 30/29** (2020.01 - EP); **G03B 25/02** (2013.01 - EP US); **G03B 35/24** (2013.01 - EP US); **G02B 3/0006** (2013.01 - US); **G02B 3/0043** (2013.01 - US)

Citation (search report)
• [X] WO 2011029602 A2 20110317 - OVD KINEGRAM AG [CH], et al
• [X] US 2009034082 A1 20090205 - COMMANDER LAWRENCE GEORGE [GB], et al
• See references of WO 2012144611A1

Cited by
EP3470771A4

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
EP 2701004 A1 20140226; EP 2701004 A4 20141203; BR 112013013265 A2 20160913; CN 103492944 A 20140101; CN 103492944 B 20141231; CN 103492945 A 20140101; CN 103492945 B 20141105; EP 2703887 A1 20140305; EP 2703887 A4 20141203; JP 5224489 B2 20130703; JP 5442910 B2 20140319; JP WO2012144110 A1 20140728; JP WO2012144611 A1 20140728; US 2014049829 A1 20140220; US 2014085730 A1 20140327; US 8934174 B2 20150113; US 9007691 B2 20150414; WO 2012144110 A1 20121026; WO 2012144611 A1 20121026

DOCDB simple family (application)
EP 12773512 A 20120420; BR 112013013265 A 20111219; CN 201180031887 A 20111219; CN 201280018745 A 20120420; EP 11863818 A 20111219; JP 2011079308 W 20111219; JP 2012060746 W 20120420; JP 2012538128 A 20111219; JP 2013511062 A 20120420; US 201113823009 A 20111219; US 201214112334 A 20120420